

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P319983

Luminaire Tested: **GAN-SA9D-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60026 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

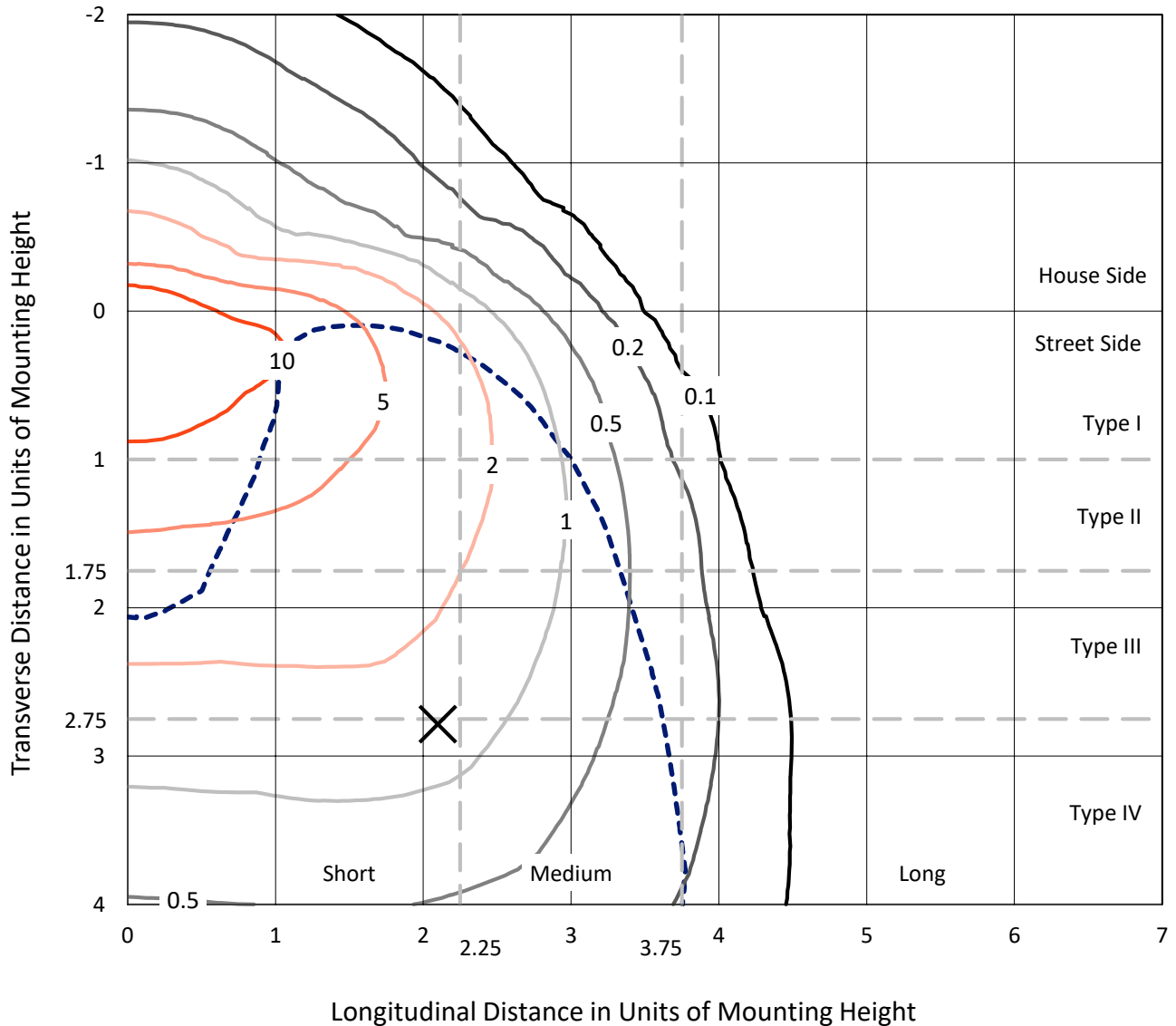
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319983
 CATALOG NUMBER: GAN-SA9D-730-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

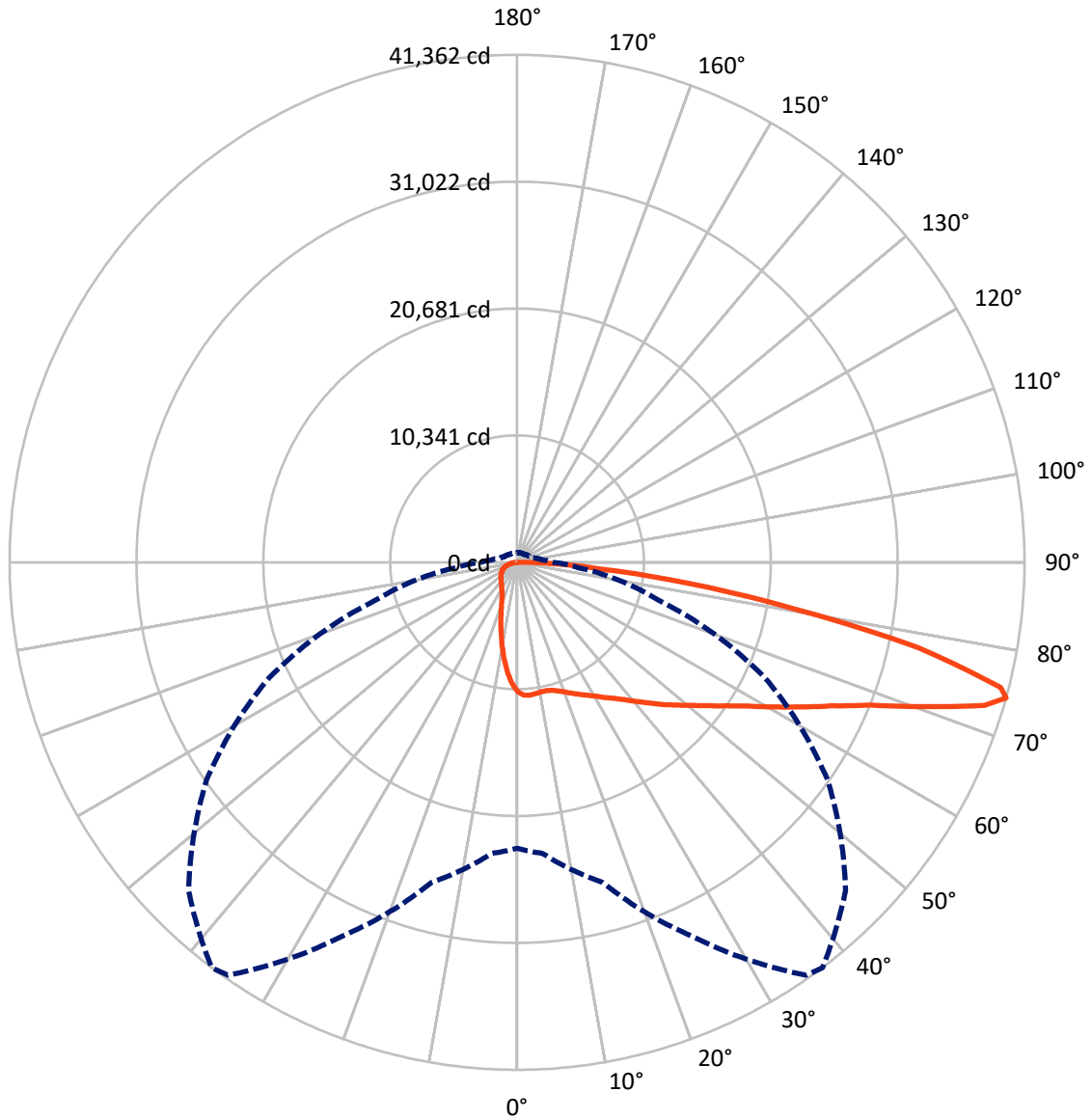
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P319983
CATALOG NUMBER: GAN-SA9D-730-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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 CATALOG NUMBER: GAN-SA9D-730-U-SL4

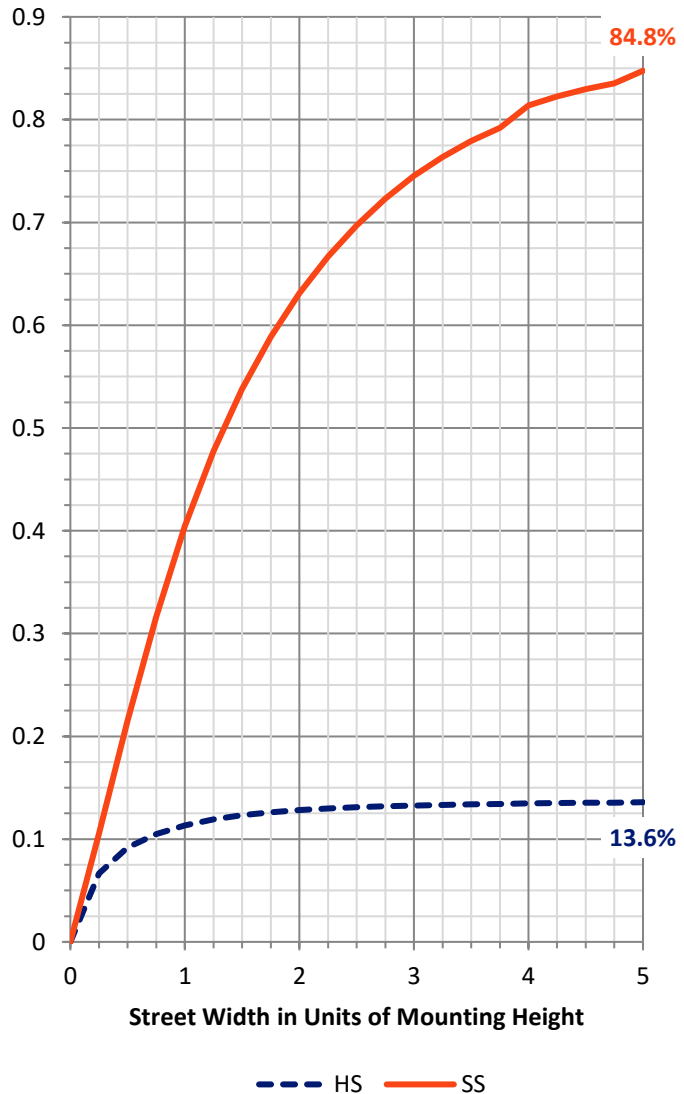
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8259.2	0.0	8259.2
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	51766.8	0.0	51766.8
	% Fixture	86.2	0.0	86.2
Total	Lumens	60026.0	0.0	60026.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	931.4	1.6
10°-20°	2387.3	4.0
20°-30°	3678.4	6.1
30°-40°	5349.0	8.9
40°-50°	7872.8	13.1
50°-60°	11055.9	18.4
60°-70°	13993.3	23.3
70°-80°	12321.7	20.5
80°-90°	2436.3	4.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	60026.0	100.0
0°-180°	60026.0	100.0

Coefficient of Utilization

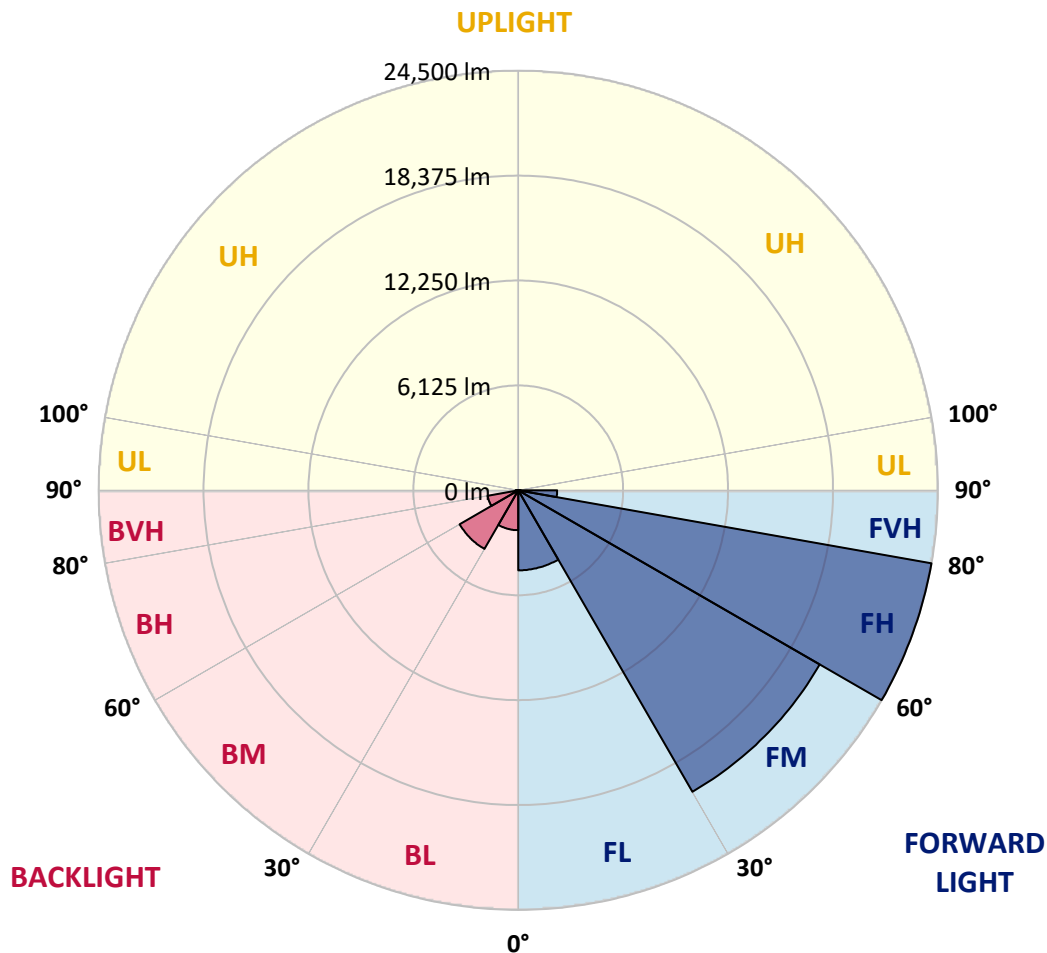


REPORT NUMBER: P319983
 CATALOG NUMBER: GAN-SA9D-730-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4670.7	7.8			
FM (30°-60°)	20325.3	33.9			
FH (60°-80°)	24499.6	40.8			G5
FVH (80°-90°)	2271.3	3.8			G5
BL (0°-30°)	2326.4	3.9	B3/2500		
BM (30°-60°)	3952.3	6.6	B3/5000		
BH (60°-80°)	1815.5	3.0	B3/2500		G3/2500
BVH (80°-90°)	165.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	10576.3	10576.3	10576.3	10576.3	10576.3	10576.3	10576.3	10576.3	10576.3	10576.3	10576.3
2.5°	10937.9	10940.0	10937.9	10921.0	10880.8	10847.0	10819.5	10779.3	10690.5	10622.9	10521.4
5°	11041.5	11028.8	11020.4	10988.7	10925.2	10887.2	10834.3	10758.2	10612.3	10477.0	10312.0
7.5°	10992.9	10978.1	10959.1	10921.0	10849.1	10817.4	10743.4	10644.0	10468.5	10290.9	10054.1
10°	10842.8	10838.5	10830.1	10821.6	10760.3	10734.9	10667.3	10561.5	10388.2	10172.5	9895.5
12.5°	10675.7	10686.3	10720.1	10764.5	10737.0	10724.4	10682.1	10610.2	10432.6	10200.0	9865.9
15°	10570.0	10599.6	10690.5	10806.8	10830.1	10825.9	10815.3	10768.8	10580.6	10322.6	9933.6
17.5°	10534.1	10582.7	10756.1	10948.5	11016.1	11030.9	11035.2	10954.8	10745.5	10472.7	10003.3
20°	10599.6	10660.9	10914.7	11179.0	11286.8	11295.3	11276.2	11136.7	10902.0	10601.7	10041.4
22.5°	10798.4	10853.3	11170.5	11468.6	11591.3	11604.0	11546.9	11335.4	11066.9	10754.0	10094.3
25°	11181.1	11248.7	11565.9	11864.0	11927.5	11929.6	11847.1	11584.9	11282.6	10967.5	10208.4
27.5°	11680.1	11747.7	12033.2	12325.0	12291.1	12272.1	12160.1	11897.9	11563.8	11261.4	10411.4
30°	12236.2	12310.2	12580.8	12788.0	12707.7	12669.6	12578.7	12240.4	11955.0	11663.2	10722.2
32.5°	12811.3	12879.0	13115.8	13257.4	13155.9	13139.0	13001.6	12692.9	12464.5	12276.3	11225.5
35°	13401.2	13449.9	13682.4	13762.8	13627.5	13623.2	13585.2	13301.8	13158.1	13246.9	11957.1
37.5°	14003.8	14016.5	14215.3	14219.5	14179.3	14196.2	14236.4	14058.8	14099.0	14376.0	12908.6
40°	14540.9	14574.7	14718.5	14762.9	14832.7	14891.9	15092.8	14976.5	15287.3	15777.8	14092.6
42.5°	14938.4	15004.0	15234.4	15348.6	15574.8	15667.9	15951.2	16059.0	16684.9	17420.7	15500.8
45°	15274.6	15376.1	15746.1	15980.8	16363.5	16526.3	16932.3	17293.9	18264.4	19203.2	16983.1
47.5°	15638.3	15767.3	16230.3	16678.6	17198.7	17382.7	18120.6	18661.9	19949.6	20996.2	18380.7
50°	16173.2	16272.6	16725.1	17429.2	18078.3	18315.1	19336.4	20112.4	21662.3	22704.7	19592.3
52.5°	16919.6	16881.6	17264.3	18251.7	19122.9	19414.6	20634.7	21655.9	23398.2	24250.3	20615.6
55°	17670.2	17606.8	17875.3	19112.3	20340.8	20647.3	22064.0	23205.8	25049.6	25641.6	21400.1
57.5°	18505.4	18384.9	18611.2	20082.8	21727.8	22093.6	23664.6	24852.9	26673.5	26766.5	21899.1
60°	19366.0	19203.2	19456.9	21285.9	23489.1	23920.5	25538.0	26459.9	28204.3	27667.2	22059.8
62.5°	20118.7	20004.6	20395.7	22628.6	25474.6	25948.2	27377.6	28168.4	29714.0	28041.5	21480.4
65°	20776.3	20795.4	21472.0	24138.3	27688.4	28193.7	29487.8	30274.3	30902.3	27819.5	20125.1
67.5°	21560.8	21668.6	22823.1	26125.8	30475.2	31029.2	32557.9	32570.6	31566.2	26517.0	17456.7
70°	22704.7	22926.7	24681.7	28883.0	34437.6	35198.8	36378.7	33919.6	30633.8	22985.9	13735.3
72.5°	23719.6	24134.0	26658.7	32037.8	39267.0	39844.2	38613.6	33141.5	26736.9	17226.2	8557.1
74°	23307.3	23821.1	27018.1	33591.9	41085.4	41362.4	37858.8	30870.6	22292.4	11929.6	4973.1
75°	22419.2	22977.4	26493.7	33577.1	40854.9	40700.5	36036.1	28276.2	18359.5	8136.3	3309.1
77.5°	18093.1	18683.0	22324.1	28777.3	33498.8	33352.9	27682.0	18968.5	8041.2	2668.4	1681.0
80°	10519.3	10969.6	13857.9	18275.0	22588.4	22852.7	18205.2	9385.9	3163.2	1499.1	1139.7
82.5°	4672.9	4983.7	6694.3	9328.8	13631.7	13972.1	9533.9	4918.2	1953.7	911.3	685.1
85°	3065.9	3296.4	4063.9	4442.4	6491.3	6723.9	4666.5	3829.2	1289.8	501.1	503.2
87.5°	2205.3	2427.4	3019.4	2636.7	2979.2	2820.6	2539.4	3543.8	518.0	285.4	169.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P319983
 CATALOG NUMBER: GAN-SA9D-730-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10576.3	10576.3	10576.3	10576.3	10576.3	10576.3	10576.3	10576.3	10576.3	10576.3	10576.3
2.5°	10477.0	10443.1	10367.0	10223.2	10142.9	10075.2	9963.2	9897.6	9868.0	9865.9	9878.6
5°	10216.9	10138.7	9942.0	9701.0	9508.6	9333.1	9115.3	8984.2	8891.2	8836.2	8851.0
7.5°	9914.5	9791.9	9483.2	9098.4	8789.7	8449.2	8113.0	7912.2	7755.7	7639.4	7660.6
10°	9707.3	9538.2	9087.8	8533.8	8020.0	7525.2	7062.2	6785.2	6565.3	6396.1	6408.8
12.5°	9637.5	9409.2	8785.4	8045.4	7324.4	6647.7	6043.0	5618.0	5391.8	5199.4	5214.2
15°	9648.1	9341.5	8531.7	7605.6	6698.5	5846.4	5112.7	4615.8	4309.2	4176.0	4178.1
17.5°	9656.6	9263.3	8265.3	7134.1	6079.0	5097.9	4300.7	3797.5	3507.8	3385.2	3387.3
20°	9629.1	9136.4	7935.4	6592.8	5432.0	4410.7	3638.9	3211.8	2991.9	2896.8	2896.8
22.5°	9593.1	8986.3	7563.3	6049.4	4793.4	3814.4	3165.3	2839.7	2712.8	2649.4	2647.3
25°	9610.1	8874.2	7182.7	5491.2	4205.6	3338.7	2850.2	2634.6	2550.0	2509.8	2507.7
27.5°	9701.0	8821.4	6831.7	4935.1	3691.8	2981.3	2638.8	2486.6	2431.6	2406.2	2406.2
30°	9865.9	8821.4	6465.9	4461.4	3264.7	2717.0	2476.0	2372.4	2334.3	2317.4	2317.4
32.5°	10153.5	8870.0	6112.8	3992.0	2924.2	2509.8	2340.7	2270.9	2241.3	2232.8	2232.8
35°	10648.2	9034.9	5768.1	3548.0	2649.4	2340.7	2211.7	2171.5	2150.4	2148.3	2154.6
37.5°	11343.9	9371.1	5444.6	3220.3	2454.8	2203.2	2103.9	2072.1	2059.4	2070.0	2078.5
40°	12219.3	9827.8	5150.7	2924.2	2306.8	2093.3	2004.5	1983.3	1977.0	1991.8	2004.5
42.5°	13276.5	10445.3	4909.7	2710.7	2192.7	2000.2	1919.9	1894.5	1888.2	1905.1	1922.0
45°	14420.4	11109.2	4740.5	2552.1	2103.9	1930.5	1845.9	1818.4	1805.7	1814.2	1833.2
47.5°	15460.7	11737.2	4672.9	2440.0	2019.3	1871.3	1780.3	1746.5	1725.4	1721.1	1735.9
50°	16338.2	12204.5	4704.6	2372.4	1951.6	1805.7	1716.9	1678.9	1647.1	1628.1	1638.7
52.5°	16976.7	12498.4	4734.2	2342.8	1898.8	1733.8	1647.1	1611.2	1568.9	1537.2	1537.2
55°	17439.8	12566.0	4668.6	2319.5	1858.6	1655.6	1568.9	1535.1	1492.8	1456.8	1452.6
57.5°	17621.6	12375.7	4425.5	2285.7	1831.1	1581.6	1486.4	1461.1	1425.1	1382.8	1380.7
60°	17376.3	11787.9	3956.1	2213.8	1795.1	1520.3	1404.0	1387.1	1370.1	1330.0	1327.9
62.5°	16391.0	10498.1	3349.2	2067.9	1723.3	1454.7	1327.9	1336.3	1338.4	1310.9	1306.7
65°	14604.3	8726.2	2757.2	1877.6	1615.4	1376.5	1249.6	1289.8	1313.1	1308.8	1302.5
67.5°	12007.8	6791.5	2336.4	1676.7	1473.8	1268.7	1165.0	1211.6	1230.6	1245.4	1241.2
70°	8912.3	4789.2	1932.6	1465.3	1302.5	1141.8	1055.1	1078.4	1065.7	1082.6	1088.9
72.5°	4968.9	2873.5	1575.2	1253.9	1124.9	993.8	932.5	928.2	900.7	900.7	900.7
74°	2981.3	2108.1	1384.9	1122.8	1017.0	896.5	843.7	824.6	799.3	801.4	799.3
75°	2397.8	1812.1	1270.8	1036.1	940.9	839.4	786.6	761.2	742.2	742.2	740.0
77.5°	1513.9	1376.5	1023.4	824.6	752.7	691.4	655.5	621.6	621.6	619.5	617.4
80°	1143.9	1095.3	797.1	623.8	577.2	530.7	507.5	492.7	492.7	499.0	496.9
82.5°	784.5	824.6	560.3	435.6	412.3	378.5	374.3	376.4	370.0	361.6	359.5
85°	573.0	619.5	378.5	274.9	251.6	230.5	247.4	255.8	245.3	226.2	217.8
87.5°	219.9	406.0	203.0	114.2	105.7	90.9	105.7	110.0	118.4	93.0	95.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)